

Retos del Cambio Climático para los Jardines Botánicos

9 Abril 2019 - MALAGA

EIT Climate KIC

Transformando la Innovación en Acción Climática

Jose L. Muñoz-Bonet
Director EIT Climate-KIC Spain
& EIT Cross-KIC ET Spain Chair

Climate-KIC is supported by the
EIT, a body of the European Union



AGENDA



EIT Climate KIC



Innovación, Formación y Emprendimiento



EIT Climate KIC Spain – Iniciativas estratégicas

Instituto Europeo de Innovación y Tecnología-EI EIT



2010



2015



2016



2018

EIT Mobility
EIT Manufacturing

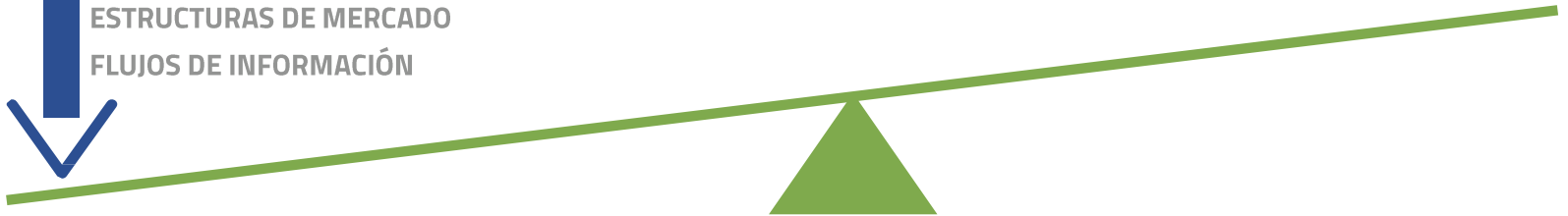




European Institute of
Innovation & Technology

**Abarcamos áreas clave de
impacto en la innovación
centrándonos
en los factores que impulsan
el cambio del sistema.**

POLÍTICA
COMPORTAMIENTO
GOBERNANZA ORGANIZATIVA
FINANCIACIÓN
TECNOLOGÍA
CAPACIDADES
ESTRUCTURAS DE MERCADO
FLUJOS DE INFORMACIÓN



A scenic landscape view from a rocky hillside, showing a large body of water (likely a bay or fjord) surrounded by green hills and a clear blue sky. The text is overlaid on this background.

EIT Climate-KIC aborda los **retos interdependientes** del cambio climático y el desarrollo económico sostenible a través de la **innovación estratégica.**



TRANSFORMAMOS LUGARES Y REDES EN FOCOS DE INNOVACIÓN CLIMÁTICA

TRANSFORMAMOS IDEAS INNOVADORAS EN PROPUESTAS ROBUSTAS Y NEGOCIOS FAVORABLES PARA EL CLIMA

TRANSFORMAMOS PILOTOS DE INNOVACIÓN EN PRODUCTOS ESCALABLES

TRANSFORMAMOS A VARIOS ACTORES EN COMUNIDADES DE INNOVACIÓN

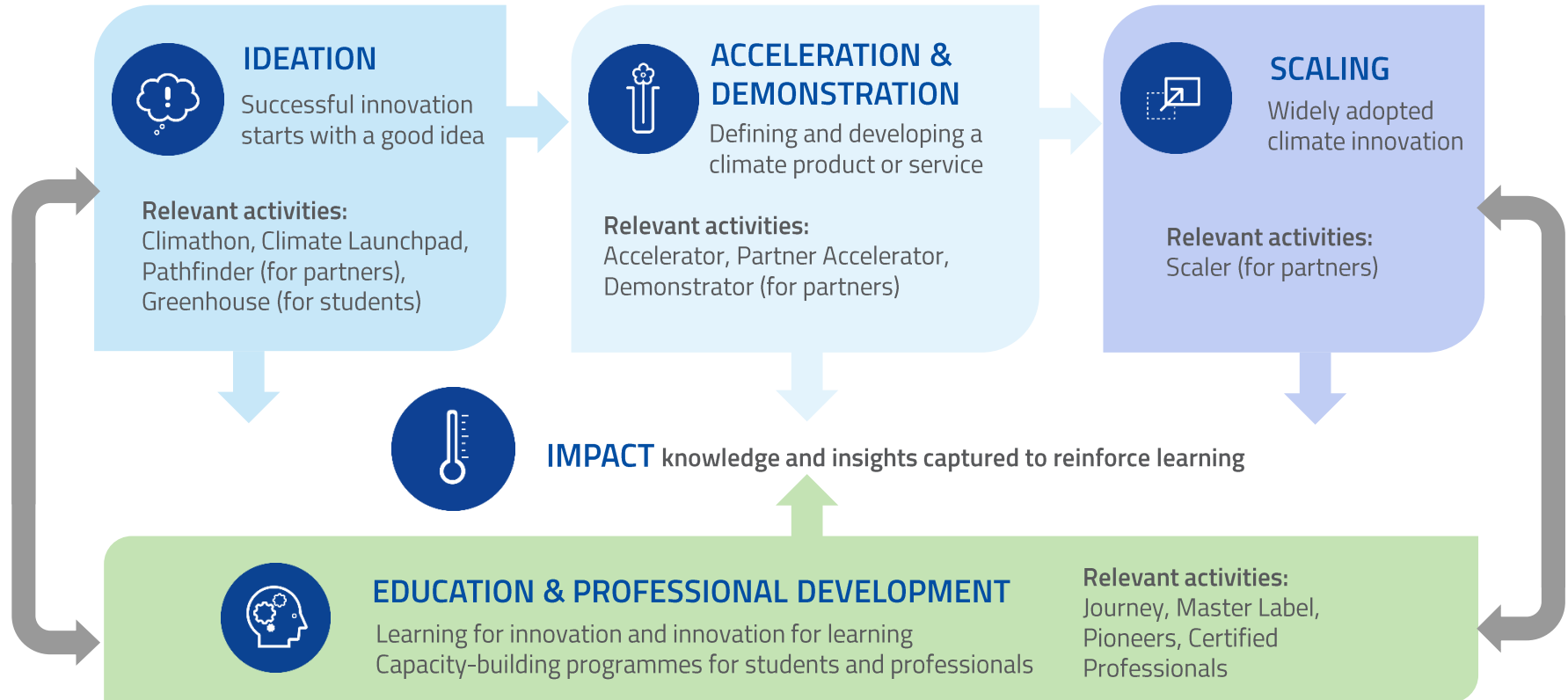
TRANSFORMAMOS MENTES BRILLANTES EN LÍDERES INNOVADORES

TRANSFORMAMOS EL CONOCIMIENTO EN PALANCAS DE CAMBIO

Climate KIC Partnership Community



End-to-end innovation



10

INNOVACIÓN

Innovation areas

We develop innovation across sectors with the most potential for environmental gain and continued prosperity.



Urban Transitions



Sustainable
Land Use

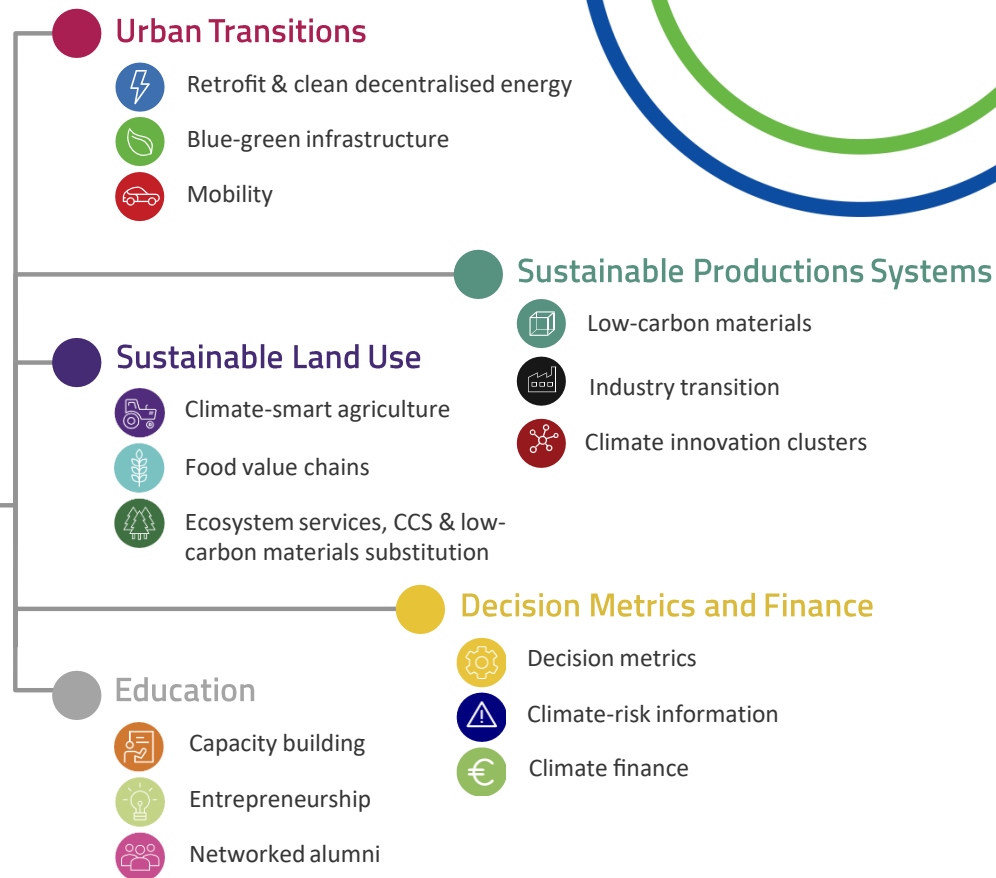


Sustainable
Production Systems

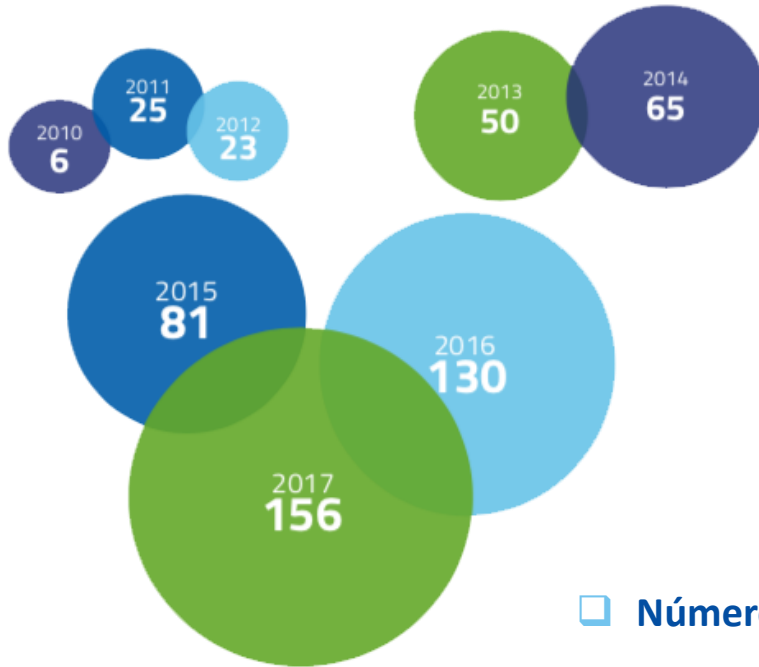


Decision Metrics and
Finance

2030 Impact Goals and Transformation Pathways

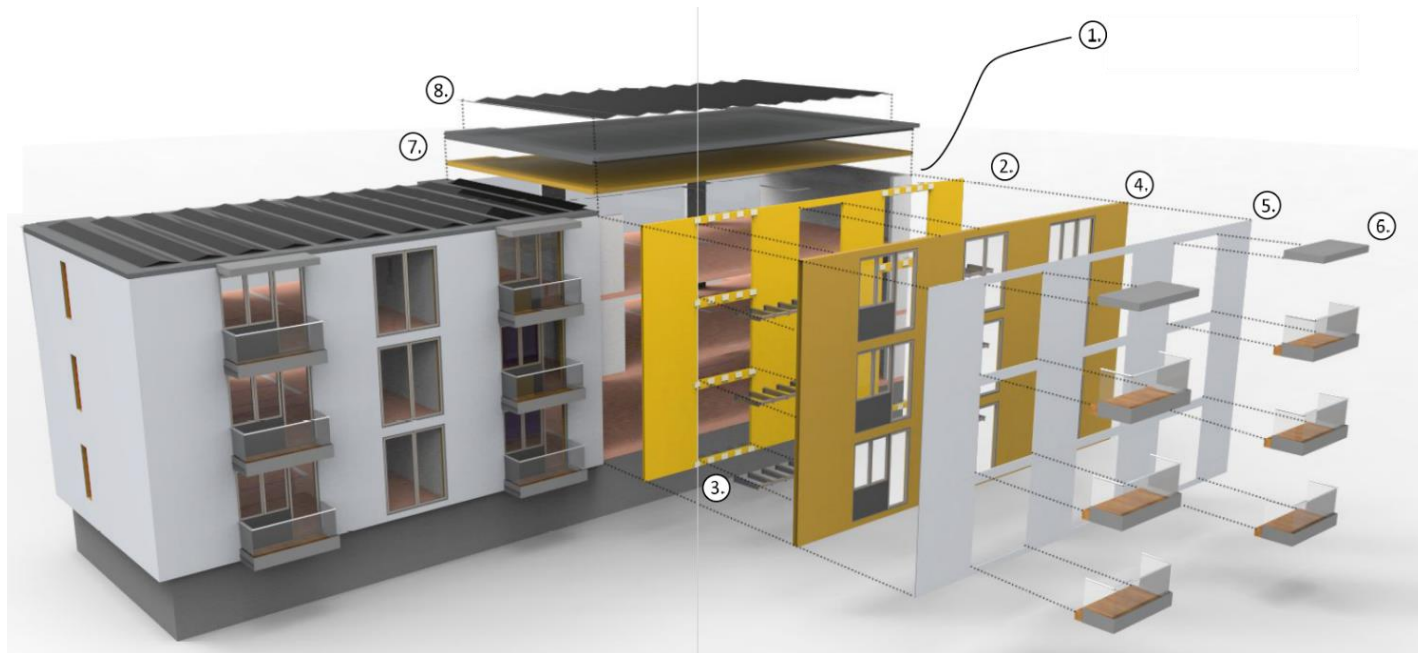


Proyectos de Innovación



- ❑ Número de proyectos de innovación desarrollados por años
- ❑ Pathfinder, Partner Accelerator, Innovation, Demonstrator, Scaler

Promover la retro-adaptación y la energía descentralizada

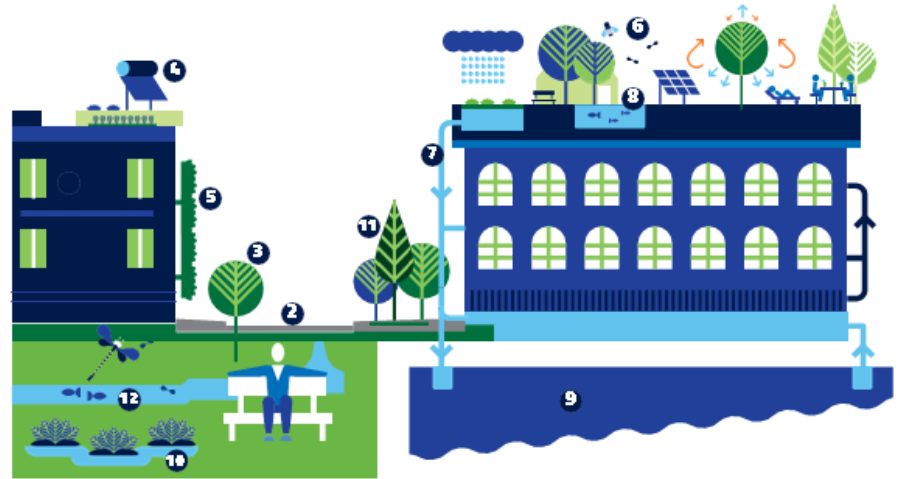


Crear ciudades verdes y resilientes



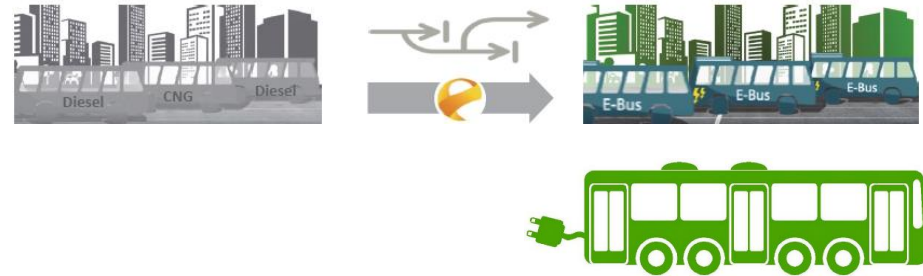
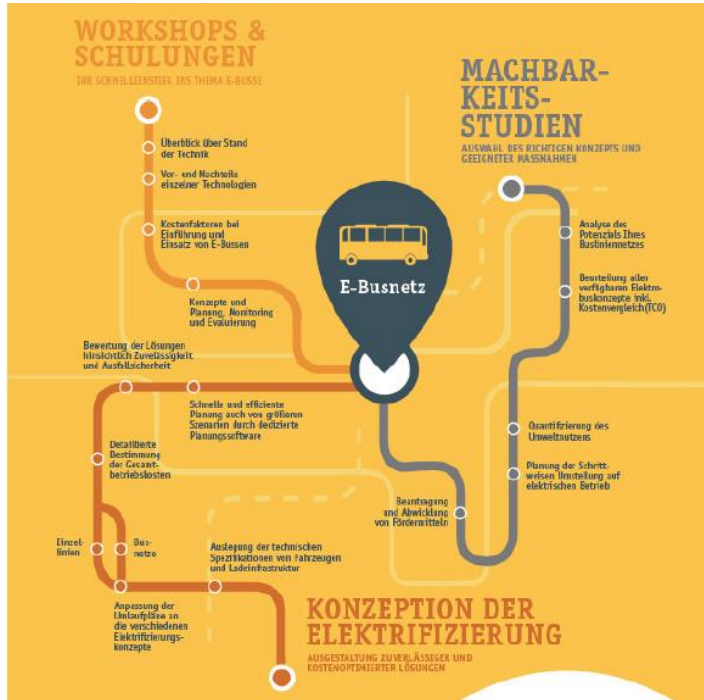
Blue Green Solutions

A Systems Approach to Sustainable, Resilient
and Cost-Efficient Urban Development

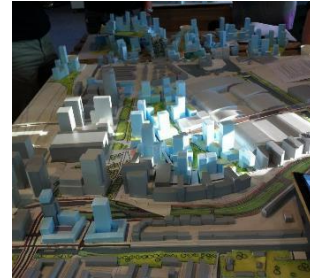


- 1 Building
- 2 Street
- 3 Trees
- 4 Solar water heating
- 5 Multifunctional green wall
- 6 Multi-functional roof garden
- 7 Storm water harvesting and recycling
- 8 Food production
- 9 Ground water aquifer
- 10 Constructed wetland
- 11 Pocket park
- 12 Urban streams and ponds

Acelerar la movilidad urbana limpia



Smart Sustainable Districts - Transforming cities - one district at a time.



FORMACION



Our Education portfolio

- Climate-KIC Education inspires, trains and supports future visionary leaders for climate action.
- ideas are the engine of change, where we fuse radically and disruptively, new thinking and innovation, through Smart methodologies and providing our students and professionals with incisive skills for business

GRADUATE

Journey

Greenhouse

Catapult ^{PIE}

Spark

PROFESSIONAL

Pioneers

Catalyst

Startup

Spotlight

Exchange

Climathon



Programa de
movilidad
profesional líder en
Europa centrado en
Cambio Climático

50 localizaciones

6 semanas

+2000 expertos

Short course



Business Models for Climate Friendly Technologies and Innovation

The **Climate Change Agenda** is a strategic asset for the new environment and its impact on business performance.

Intermediate and directive staff with technical background oriented to sustainability must understand new agents in the financial markets, such as investment funds and private equity companies and how they differ from traditional sources of finance.

This **short course** will introduce participants to the three essential elements of a successful project:

- 1 Identifying the climate-change related and other **benefits of technological innovations**.
- 2 Evaluating the **economic and financial feasibility** of a proposed project integrating the climate component.
- 3 Identifying **new options for project financing** with the climate perspective.



Participants will gain a basic understanding of how to analyze the **benefits and economic feasibility** of proposed new sustainable systems or technologies. They will also learn how to approach **financial markets, develop a business plan and identify companies and government agencies** able to fund innovative climate-friendly projects.

Course objectives

- 1 Evaluating the costs and economic feasibility of innovative climate -friendly technologies
- 2 Analysis of **alternative sources of financing** for climate -friendly technologies: long run and short-run
- 3 The role of **European private equity companies, investments funds, and societies of collective investment** for project finance: Advantages and disadvantages

The course will be held in **Valencia**, at the campus of the **Universitat Politècnica de València (UPV)**.

Spotlight

Short course / Master Class

Catalyst

In depth learning /Lab approach



+ info



Un curso intensivo de seis días, destinado a **mejorar las capacidades para el diseño y gestión de la Innovación:**

- **Iniciativa para transformar los sistemas de gestión de las aguas urbanas hacia un modelo más circular**
- **Cambios en el consumo de agua, el uso y la reutilización de agua de diferentes fuentes**
- **Tratamiento y la circularidad de las aguas residuales**

Ambiente altamente innovador a través de serious games, herramientas visuales, métodos co-creativos y actividades participativas.

Intercalando obtención de nuevos conocimientos con expertos internacionales y trabajando en casos reales con los equipos de participantes aplicando nuevas herramientas.

The Journey



La mayor Escuela de
Verano de Europa de
innovación contra el
Cambio Climático

220 Estudiantes

45 nacionalidades

8 itinerarios



Climathon

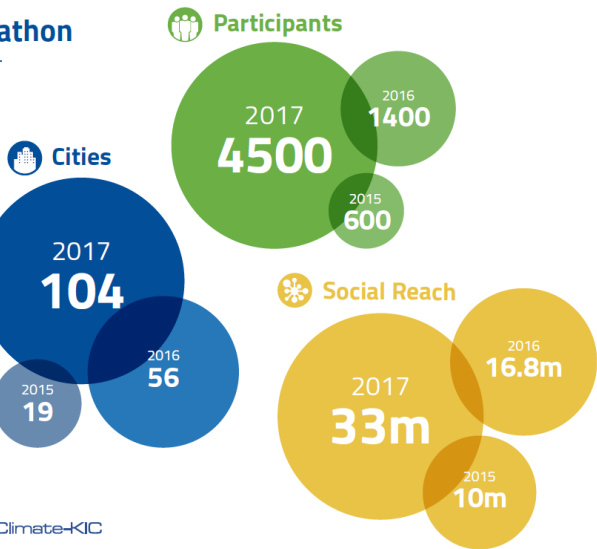
Movimiento global que involucra a los ciudadanos para dar solución a los **retos climáticos** de las **ciudades**

Hackathon anual de 24 horas
24 de Octubre de 2019

Climathon

Climathon is a global 24-hour climate change hackathon which will take place simultaneously in major cities around the world on 25 October 2019.

Climathon



Climathon city challenges

Find a city with a similar challenge to yours, and get in touch with them to exchange ideas during your 24 hour Climathon



Air pollution

Recife, Brazil
Hong Kong, China
Berlin, Germany
Ahvaz, Iran
Tehran, Iran
Warsaw, Poland
Mexico City, Mexico
Leeds, UK
Yerevan, Armenia



Circular economy

Helsinki, Finland
Edinburgh, UK
Hong Kong, SAR, China
Torres Vedras, Spain
Suzhou, China
Maribor, Slovenia



CO₂ reduction

Yerevan, Armenia
Adeleide, Australia
Matera, Italy
Wellington, New Zealand
Long Beach, California, USA
Galway, Ireland



Coast management Sea level rise

Lecce, Italy
Wellington, New Zealand
St Petersburg, USA
Venice, Italy
Rimini, Italy



Cultural heritage

Napoli, Italy
Suzhou, China
Trondheim, Norway



Ecosystems

Bangor, Wales



Energy

Brussels, Belgium
Hong Kong, SAR, China
Hong Kong, University of Hong Kong, China
Berlin, Germany
Alessandria, Italy
Milan, Italy
Delft, The Netherlands
Wellington, New Zealand
Trondheim, Norway
Zurich, Switzerland
Rabat, Morocco
Krakow, Poland
Busan, South Korea
Valencia, Spain
Lund, Sweden
Long Beach, USA



Extreme weather events

Melbourne, Australia
Minsk, Belarus
Hong Kong, SAR, China
Hong Kong, University of Hong Kong, China
Paris, France
Hyderabad, India
Bologna, Italy
Venice, Italy
High Atlas, Morocco
Brasov, Romania
Novi Sad, Serbia
Murcia, Spain
Port of Spain, Trinidad and Tobago
Washington DC, USA



Food

Wellington, New Zealand
Donostia/San Sebastian, Spain
Galicia, Spain
Zurich, Switzerland
Edinburgh, UK
Port of Spain, Trinidad & Tobago



Land use

Cuernavaca, Mexico
Port of Spain, Trinidad and Tobago



Light pollution

Madrid, Spain



Mobility

Canberra, Australia
Recife, Brazil
Bogota, Colombia
Tallinn, Estonia
Cannes, France
Essen, Germany
Budapest, Hungary
Cork, Ireland
Ferrara, Italy
Rabat, Morocco
Wellington, New Zealand
Oslo, Norway
Krakow, Poland
Almada, Portugal
Rimini, Italy
Salerno, Italy
Galicia, Spain
Zurich, Switzerland
London, UK
Tehran, Iran
Matera, Italy
Long Beach, USA
Novi Sad, Serbia
Colombare, India



Policy

Lagos, Lagos State
University, Nigeria
Magliano Sabina, Italy



Recycling, bio waste, waste management

Recife, Brazil
Hong Kong, SAR, China
Hong Kong, University of Hong Kong, China
Suzhou, China
Berlin, Germany
Frankfurt am Main, Germany
Budapest, Hungary
Hyderabad, India
Tehran, Iran
Wellington, New Zealand
Valletta, Malta
Mexico City, Mexico
Torres Vedras, Portugal
Johannesburg, South Africa
Port of Spain, Trinidad and Tobago
Harare, Zimbabwe
Colombare, India



Resilience

Christchurch, New Zealand
Murcia, Spain
Florence, Italy
Sassari, Italy
Rimini, Italy
Washington DC, USA



Water management

Burgas, Bulgaria
Hyderabad, India
Mashhad, Iran
Shiraz, Iran
Bologna, Italy
Calgari, Italy
Cesena, Italy
Florence, Italy
Trentino, Italy
Isfahan, Iran
Puebla, Mexico
Mexico City, Mexico
Krakow, Poland
Murcia, Spain
Brooklyn, United States
Harare, Zimbabwe
Burgassot, Spain
Colombare, India



Smart city, urban resilience, management, development

Alessandria, Italy
Assago, Italy
Matera, Italy
Milan, Italy
Sassari, Italy
Torino, Italy
Tehran, Iran
Karaj, Iran
Lagos, Nigeria
Krakow, Poland
Guimarães, Portugal



Community Involvement

Tehran, Iran
Mexico City, Mexico
Wellington, New Zealand
Napoli, Italy
Karlsruhe, Germany
Krakow, Poland
High Atlas, Morocco
Washington DC, USA
Budapest, Hungary

Climathon 2018 – a global movement



115 cities

>5,000 participants

> 20,000 posts on social media

Climathon

2018

Journey

400

Participants
(8%)

9

Cities
(8%)



Las Palmas de
Gran Canaria



Collaborators



Jackie Hernández



Bill Aulet



Gary Gadner

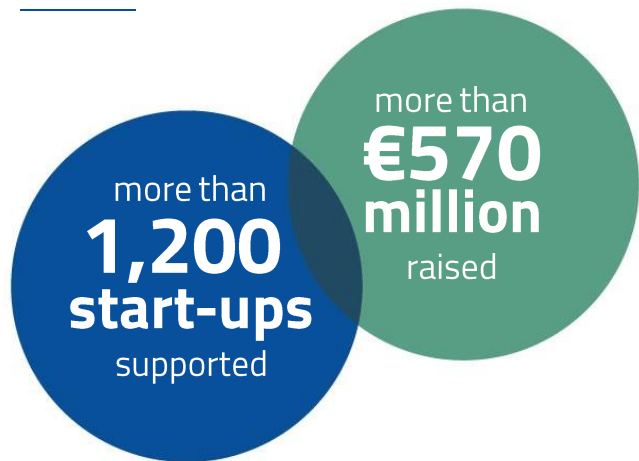


Edward Rubin

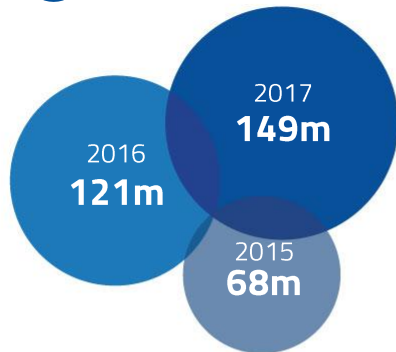


EMPRENDIMIENTO

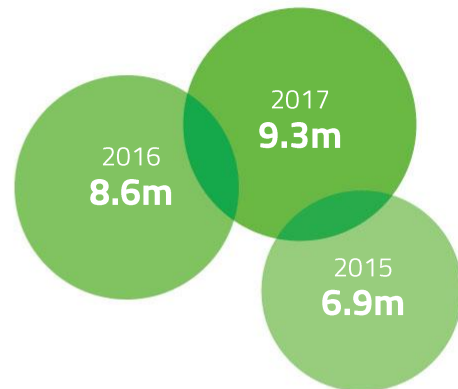
EIT Climate-KIC Start-up Accelerator Programme



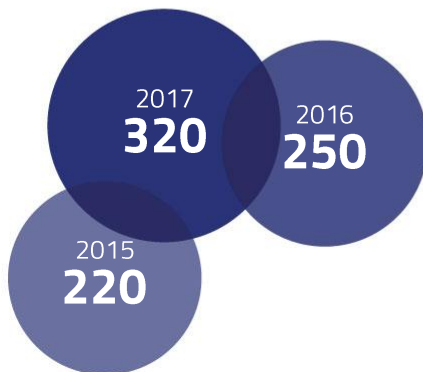
Capital attracted



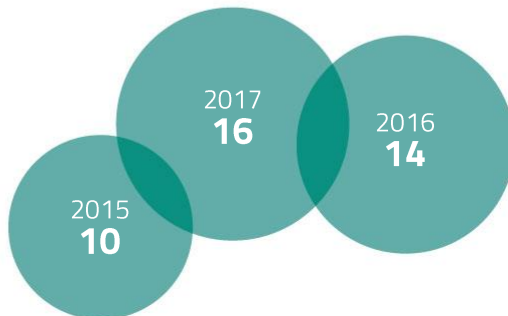
Spend by CKIC



Ideas incubated



Leverage ratio



Accelerator

6

Spanish Editions

Launchpad

5th

Best Accelerator
in Spain

FUNCAS Ranking

Greenhouse

4.609.961€

Start-ups Funding
Attracted 2018

20

Start-ups Accelerated
in 2018

9

Products & services
launched in 2018



Designs and produces coating systems for the protection of **wind turbine blades.**


€2M
Annual turnover



€1M
funding attracted
SME Instrument
H2020



€500k
funding attracted
Valencia Polytechnic
University





Zbox is an original idea for a foldable container proposed by Navlandis Logistics Technologies.

300.000

Funding attracted
in 2018

SME
Instrument

H2020
2017

EIT Awards

Nominated in 2018 in
the Venture category

Emprendedores
Magazine

One of the
50 start-ups with the most
potential in Spain
(2017)

1

5

-80%

Storage
Space

-50%

Operation
Costs

-20%

CO₂ Emissions

Developing Hyperloop in Spain.

140K
Tn

CO₂ saved per route/year

678.205€

Funding Attracted
2018

Fundación
Everis

2017

Start-up
Valencia
Awards

Best Startup 2018

1

Staff Team

5

1

External workers

6

1

Vacancy jobs

4

Our start-ups are taking off



Top six earners by investment raised

Lilium Aviation **€87M**

Thermondo **€50.5M**

Tado **€45.2M**

Volocopter **€30M**

Ynsect **€12.9M**

unu **€7.5M**

Informe FUNCAS

Ranking FUNCAS: Climate-KIC Accelerator 5º mejor programa de aceleración de España

ESEficiencia^{ES}
Portal de Eficiencia y Servicios Energéticos

INICIO EFICIENCIA ENERGÉTICA SERVICIOS ENERGÉTICOS CLIMATIZACIÓN ILUMINACIÓN ENERGÍAS RENOVABLES >

Inicio > Eficiencia Energética > Funcas sitúa a Climate-KIC Accelerator entre los cinco mejores programas aceleradores de empresas

Funcas sitúa a Climate-KIC Accelerator entre los cinco mejores programas aceleradores de empresas

Publicado: 15/06/2017



Climate-KIC Accelerator, el programa de aceleración de start-ups de la iniciativa europea **Climate-KIC**, centrada en innovación para la mitigación y la adaptación al cambio climático, ha sido clasificado en un ranking elaborado por Funcas, como uno de los cinco mejores programas de aceleración de empresas.



Emprendedores

Club de Emprendedores

Start-ups medioambientales >



Abierta convocatoria para la mayor aceleradora de start-ups limpias

Es uno de los cinco mejores programas de aceleración de empresas.

Ir a comentar

EFFE EMPRENDE

Actualidad Lanzadera Financiación Eventos Cómo se hace una compañía Mapa del emprendimiento Formación EFEmpresas

Publicado: Actualidad > Climate-KIC Accelerator, entre los mejores programas de aceleración de startups según FUNCAS

Climate-KIC Accelerator, entre los mejores programas de aceleración de startups según FUNCAS

Climate-Kic Accelerator ha sido posicionado como el quinto mejor programa de aceleración de startups de España, según el último estudio realizado por FUNCAS, un think tank dedicado a la investigación económica y social.

EFFEEMPRENDE | MADRID | MIÉRCOLES 14 DE JUNIO DE 2017

BBVA
Calcula y premia en tu futuro con los Planes de Pensiones BBVA
Descubre más

EFEmprende
Algunas de las noticias más vistas entre julio han sido el...
ATA lanza una campaña de prevención de riesgos laborales para estudiantes de Defensiooona, 4 horas ago
La Formación También ayuda a personas inmigrantes que quieren emprender, 8 horas ago
Omnistar Finanzas Unidas y cierra 2017 con un crecimiento interanual del 100%, 8 horas ago
Los principatos de España visitan, 12 horas ago
Sigue a @EFFEmprende

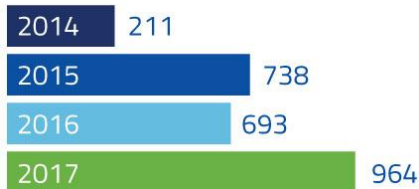
La tarjeta +Repte te da

ClimateLaunchpad

"The world's leading green business ideas competition"

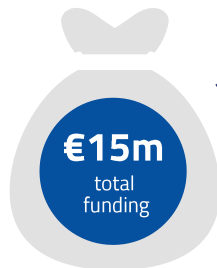


Number of business ideas submitted



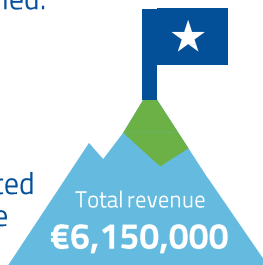
Funding and revenue

Of 728 start-ups enrolled:

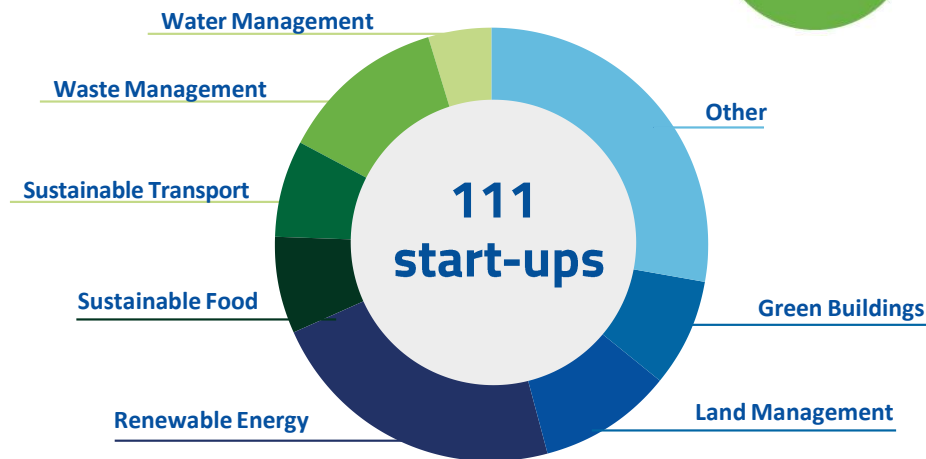
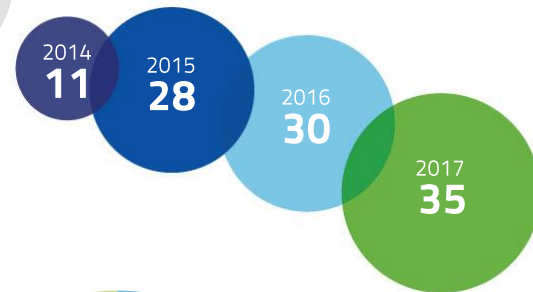


111 received external funding

42 generated revenue



Participating countries



Funded CLP start-ups by sector

38

EIT Climate KIC Spain Strategic Initiatives



Strategy
National
level

Strategy
Subnational level

Development of **Climate Innovation Ecosystem** in Spain



National Level

Climate Change and Energy Transition Spanish Law



GOBIERNO
DE ESPAÑA

MINISTERIO
DE ECONOMÍA, INDUSTRIA
Y COMPETITIVIDAD

National Level

Spanish Platform for Climate Action




PLATAFORMA ESPAÑOLA
DE ACCIÓN CLIMÁTICA
COLABORACIÓN PÚBLICO PRIVADA



Red Española



Climate-KIC is supported by the EIT, a body of the European Union 



National Level

Spanish Platform for Climate Action Teresa Ribera, Minister for the Ecological Transition



National Level



GEO Ideator:

Daniel Calleja, DG DG ENV

Teresa Ribera, IDDRI Director



National Level



Smart Agrifood Summit
Luis Planas, Minister of Agriculture

  <p>GOBIERNO DE ESPAÑA</p>	<p>MINISTERIO DE AGRICULTURA, ALIMENTACIÓN Y MEDIO AMBIENTE</p>
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National Level

AIR Center

**Pedro Duque, Minister of Science,
Innovation and Universities**



National Level



AIR Center
International Centre for
Atlantic Research (Brazil)

National Level



Carmen Vela,
State Secretary for R+D+i

EIT Cross-KIC Spain



Juan María Vázquez Rojas,
President of CDTI

National Level



Surplus Mall Project Congress of Deputies





Strategy

National level

Strategy

Subnational level

Explore and Evaluate the climate
innovation ecosystem development at
regional and local level in Spain

Galicia



Galicia



Beatriz Mato,
Environmental Councillor



Maria Cruz Ferreira,
DG for Environmental & Climate Change



Start-ups & Media
December 2018

Anntena Galicia Hub



Cantabria



Cantabria



Cantabria Circular Economy Business Forum
June 2018



Cantabria Innovation Ecosystem Meeting
June 2018

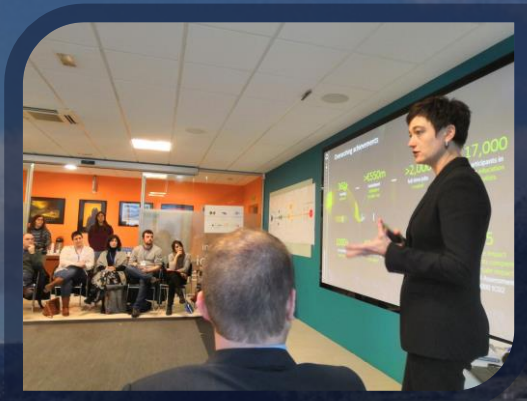
Anntena Cantabria



Bilbao-Mondragón



Bilbao-Mondragón



**Mondragón Lab: Open Innovation
Platforms for Social Transformation**



Andalucía





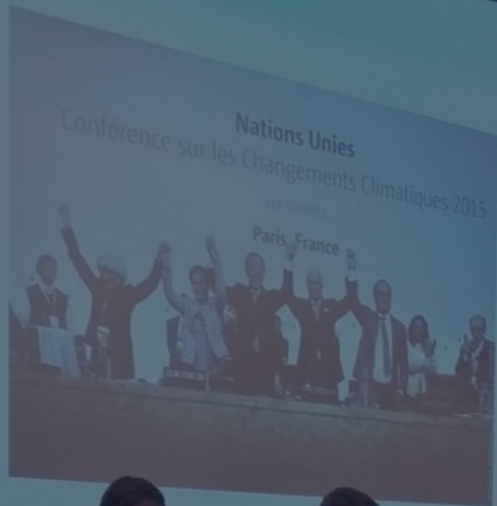
Huelva



SOCC, Congreso Internacional de Cambio Climático

May 2017

Granada



Foro Desarrollo Sostenible

Sevilla



SMARTER Conference on Smart Specialization and Territorial

Málaga

Is the biggest professional and multisector for to transfer **scientific knowledge** and lines of **technological research**. A unique space in Spain to encourage Technology transfer and business cooperation.

Foro Transfiere
February 2017/ 2018

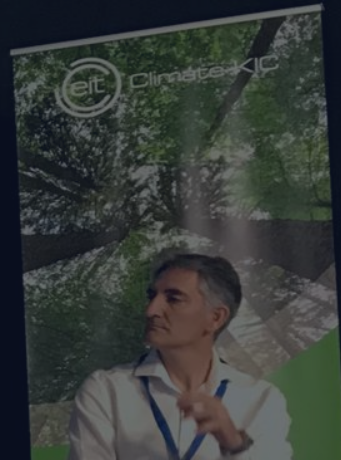


Transfiere | Málaga 2018
7th Foro Europeo para la Ciencia, Tecnología e Innovación
7th European Meeting on Science, Technology and Innovation | f e b



Málaga

Speaker
Corner



SMART AGRIFOOD SUMMIT

June 2018



Málaga



Ayuntamiento
de Málaga



Climate-KI
Innov

IV Urban Transition Workshop

September 2018

Murcia



Murcia -
Cartagena



Murcia



Carmen Sandoval,
DG Transport and Ports



Urban Intelligence
Global Conference



Agriculture &
Climate Change Workshop

Canary Islands



Las Palmas de Gran
Canaria

Las Palmas de Gran Canaria

Earth's Vital Signs: A View From Space
4th High-Level Industry-Science-Government Dialogue on 'Atlantic Interactions'
Alfredo Kraus Auditorium
Las Palmas de Gran Canaria, Canary Islands, Spain

4th High-Level Industry-Science-Government Dialogue on 'Atlantic Interactions'

November 2018



Las Palmas de Gran Canaria



Encuentro Archipiélago y Océano



XVI Foro ADR Canarias

Madrid



Madrid



COTEC



CAETS:Challenges of the Bioeconomy



Reinventing Madrid C40



Circular Economy Platform



Climate Day UPM



Foro de las ciudades

Valencia



Valencia

GROW your REGION Conference
DG Regio





Valencia



Visit of the delegation of the
Ministry of Environment of India

Valencia

ECO-POL

1st ECO-POL Meeting of Chiefs and Commanders of the Local Police of the Comunidad Valenciana

Valencia



Group of experts



Valencia



Shaping
world's green
economy

Debate Spanish Ecosystem of Innovation in Climate Change



Opportunity

Botanic Gardens & Climate Change

PROPOSAL: to extend the mission of the Botanic Gardens at international level in 2 key aspects related to Climate Change:

- a) **to use immersive monitoring of how different plants/trees are changing in botanical gardens to help highlight how the climate is changing and to show impacts and ways of adapting**
- a real direct observatory and show-place to the society about Climate Change.
- b) **to offer an experiential learning and action EDU Lab on climate change**
- With local experimentation for best NBS (Nature Best Solutions) in the local Urban transition. Could become a place to experiment, training & educate professional, civil servants & technicians of the local & regional bodies in their UT projects. (EIT CKIC in cooperation with Botanic gardens will teach these key actors for transformation).

Climate Change Alliance Summit Melbourne 2021

GRACIAS POR SU ATENCIÓN



climate-kic.org

www.climatekic-spain.org



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